

CURRICULUM VITAE

Sean J. Morrison

PERSONAL DATA

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EDUCATION

September 1986 - May 1991: B.Sc. with First Class Honors in Biology and Chemistry, Dalhousie University (Halifax, Canada)

September 1991- June 1996: Ph.D. in Immunology, Stanford University (Stanford, CA). Supervisor, Dr. Irving L. Weissman.

POSTDOCTORAL TRAINING

July 1996 - August 1999: Postdoctoral Scholar in the laboratory of Dr. David J. Anderson, California Institute of Technology (Pasadena, CA).

EMPLOYMENT AND ACADEMIC APPOINTMENTS

September 1987 - September 1990
President, Endogro Systems Inc., a company that developed technology for the agricultural use of plant growth-promoting fungi.

August 1999 – August 2004
Assistant Professor, Departments of Internal Medicine (Division of Molecular Medicine and Genetics) and Cell and Developmental Biology, University of Michigan.

June 2000 – Present
Investigator, Howard Hughes Medical Institute

September 2004 – September 2008
Associate Professor, Departments of Internal Medicine (Division of Molecular Medicine and Genetics) and Cell and Developmental Biology; Research Associate Professor, Life Sciences Institute, University of Michigan.

September 2005 – August 2011
Director, University of Michigan Center for Stem Cell Biology and Henry Sewall Professor in Medicine, University of Michigan

September 2008 – August 2011

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Professor, Departments of Internal Medicine (Division of Molecular Medicine and Genetics) and Cell and Developmental Biology; Research Professor, Life Sciences Institute, University of Michigan.

September, 2011 – present

Director, Children's Research Institute; Professor, Department of Pediatrics; Mary McDermott Cook Chair in Pediatric Genetics, University of Texas Southwestern Medical Center

SCIENTIFIC ACTIVITIES

Editorial Boards:

10/03 – 05/09	Stem Cells
01/06 – present	Faculty of 1000, Section Head "Stem cells & Regeneration"
12/06 – present	Cell Stem Cell
01/10 – present	Journal of Experimental Medicine
03/11 – present	EMBO Journal

Grant Reviewer:

2//04	National Institutes of Health: Ad Hoc, Neurogenesis and Cell Fate (NCF) Study Section
10/06 – present	California Institute for Regenerative Medicine: periodic ad hoc reviewer
01/07 – 02/11	Italian Association for Cancer Research (AIRC)
02/08	National Institutes of Health: Ad Hoc, Hematopoiesis (HP) Study Section
05/09	Damon Runyon Cancer Research Foundation Postdoctoral Fellowship Review Committee
10/09 – 04/11	Cancer Prevention and Research Institute of Texas, Basic Science Review Panel
11/10	National Inst. of Health: Chair, Special Emphasis Panel ZAG1 ZIJ-2
01/11 – present	National Institutes of Health, College of Reviewers
05/11 – present	Chair, Howard Hughes Medical Institute International Predoctoral Fellowship selection committee

Meeting Organizer:

07/06	American Society for Cell Biology Summer Meeting, Stem Cell Niches; Boston, MA
02/08	Keystone Symposium Tumor Suppressors and Stem Cell Biology, Vancouver
08/09 – 07/10	International Society for Stem Cell Research Annual Meeting Chair, Program Committee
02/11	Abcam Symposium Therapeutic approaches to neurodegeneration-age modifiers, proteostasis, and stem cells

Scientific Advisory Boards:

02/07 - present	University of California-Los Angeles Stem Cell Center
12/10 – 07/11	External Advisory Committee, National Heart Lung and Blood Institute Progenitor Cell Biology Consortium

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01/11 – present	National Academy of Sciences panel to consider whether there should be a new taxonomy for disease
07/11 – present	External Advisory Board, University of Washington Stem Cell Program
05/11 – present	University of Washington Institute for Stem Cells and Regenerative Medicine
07/11 – present	Morgridge Institute of Research (University of Wisconsin)

GRANT SUPPORT

ONGOING

001823 Morrison (PI) 6/1/05 - 6/30/12

Howard Hughes Medical Institute

Funding is not associated with a specific project

Direct Costs: \$769,890 for 2008-2009 fiscal year

2 R37 AG024945 06 (PI, Morrison) 9/01/09-7/31/14

NIH/NIA (MERIT Award)

Direct Costs: \$205,000/year

“The Regulation of Stem Cell Aging”

The goals of this project are to test whether let-7 microRNAs, the JunB transcription factor, and the p19Arf tumor suppressor regulate the decline in neural stem cell function and neurogenesis during aging.

2-R01-NS-040750-10 (PI, Morrison) 1/15/2010 to 12/31/2014

NIH/NINDS

Direct Costs: \$218,000/year

“Stem Cells in Peripheral Nervous System Development”

The goals of this project are to study the function of Lgi4 in the regulation of stem cell function and gliogenesis throughout the developing peripheral nervous system.

1 R01 HL097760 01 (PI, Morrison) 8/24/09-7/31/13

NIH/NHLBI

Direct Costs: \$240,000/year

“Genetic analysis of stem cell maintenance in vivo”

The goals of this project are to determine whether osteoblasts, megakaryocytes, and/or endothelial cells are the physiologically important sources of factors that regulate hematopoietic stem cell maintenance in vivo.

The Melanoma Research Foundation 1/1/2010 to 12/31/2011

Research Grant

Direct Costs: \$90,000/year

“The regulation of melanoma metastasis”

“The major goal of this project is to study the mechanisms that regulate the metastasis of human melanoma cells in vivo.”

The Ellison Medical Research Foundation 9/01/07 – 8/31/11

Principal Investigator: Sean Morrison

Direct Costs: \$150,000/year

“The physiological role of stem cells in the maintenance and function of the aging brain”

The goal of this project is to test whether ongoing stem cell activity and neurogenesis in the adult brain is required for adult brain maintenance, learning, or memory.

RECENT

Goldhirsch Foundation (PI, Morrison) 07/01/2009-06/30/2010

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Research Grant Direct costs: \$100,000
“Do glioblastomas follow a cancer stem cell model?”
The goal of this project is to perform limit dilution assays to determine the frequency of cells with tumorigenic potential among glioblastoma specimens obtained from 10 patients.

1 R01 DK083288 01 (PI, Morrison) 9/10/09-7/31/11
NIH/NIDDK Direct Costs: \$244,000/year
“The derivation of enteric neural crest stem cells from human embryonic stem cells”
The goals of this project are to derive enteric neural crest stem cells from human embryonic stem cells, and to test whether these cells can give rise to enteric neurons and glia upon transplantation into a rodent model of Hirschsprung disease.

HONORS AND AWARDS

1986 Young Canadians Award for Excellence in Science
1986 Waverly Award, Dalhousie University
1987 Dalhousie University McKenzie Trust Scholarship
1988 Dalhousie University Ross S. Smith and Alan Pollok Scholarships
1990 Dalhousie University Ross S. Smith Scholarship
1991 Natural Sciences and Engineering Research Council of Canada Research Award
1991 Dalhousie University Medal in Biology
1991 United Kingdom Commonwealth Scholarship, Oxford University (declined)
1991 Natural Sciences and Engineering Research Council 1967 Scholarship (declined)
1991-96 Howard Hughes Medical Institute Predoctoral Fellowship in Biological Sciences
1996 Guenther Foundation Postdoctoral Fellowship
1996-98 Natural Sciences and Engineering Research Council Postdoctoral Fellowship
1997-99 American Cancer Society, California Division Junior Postdoctoral Fellowship
1999 American Cancer Society, California Division Senior Postdoctoral Fellowship
2000-03 Searle Scholar
2000 Mental Illness Research Association Milestone Award
2002 Named to TR100 list: MIT Technology Review Magazine's list of 100 young innovators
2003 Wired Magazine Rave Award for Science
2003 Presidential Early Career Award for Scientists and Engineers, White House Office of Science and Technology Policy
2004 Dean's Award for Basic Science, University of Michigan Medical School
2006 Detroit News Michiganiaan of the Year
2007 Pfizer Young Michigan Biomedical Investigator of the Year Award
2007 McCulloch and Till Award, International Society for Hematology & Stem Cells
2008 American Association of Anatomists Harland Winfield Mossman Award
2009 MERIT Award, National Institute on Aging

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

1994-present American Association for the Advancement of Science
1999-present Society for Developmental Biology
2001-present Society for Neuroscience
2002-present International Society for Stem Cell Research

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2004-present American Society for Cell Biology
2007-present International Society for Hematology and Stem Cells

OFFICES IN PROFESSIONAL SOCIETIES

American Society for Cell Biology

1/04 – 12/09 Public Policy Committee
6/04 – 5/05 Program Committee

International Society for Stem Cell Research

9/02 – 7/06 Membership Committee
10/03 – 7/06 Government Affairs Committee
6/04 - present Board of Directors
7/06 – 7/09 Treasurer, Member of the Executive Committee
7/09 – 7/10 Chair, Program Committee for the Annual Meeting
03/11 – present Co-chair, Legislative and Education Committee

PUBLIC EDUCATION/POLICY ACTIVITIES

May 16, 2005 Testimony before the Ad Hoc Congressional Hearing on Stem Cells, Chicago, IL

April 21, 2006 Testimony before the State of Michigan Health Policy Committee Hearing on Stem Cells, Lansing, MI

June, 2006 to June, 2011: Director, Michigan Citizens for Stem Cell Research and Cures

2008 Numerous media and public appearances to educate the public regarding stem cell research in the context of Michigan's Proposal 2 (a successful ballot proposal to protect embryonic stem cell research in the state constitution).

September 16, 2010: Testimony before U.S. Senate Subcommittee on Labor, Health and Human Services, Education and Related Agencies on "Human embryonic stem cell Research", Washington, D.C.

TEACHING ACTIVITIES AT THE UNIVERSITY OF MICHIGAN

Lectures:

- 2000** 04/06 CDB 580, Principles of Development, "Stem cells"
10/19 CDB 680, Organogenesis of the Neural Crest Module, "The subtypes of neurons in the PNS, what they do, and the genes that regulate their formation"
10/26 CDB 680, Organogenesis of the Neural Crest Module "Regulation and function of neural crest stem cells"
10/31 CDB 680, Organogenesis of the Neural Crest Module "Fundamental developmental questions posed by neural crest biology"
- 2001** 01/16 CDB 580, Principles of Development, "Introduction to Stem Cell Biology"
10/03 Biochemistry 491, Biochemical Basis of Human Diseases and Pathologies "Introduction to Stem Cell Biology"
11/08 CDB 685, Organogenesis of the Central Nervous System, "CNS stem cells"
12/11 CDB 685, Organogenesis of the Central Nervous System, Panel Discussion

- 2002** 04/11 CDB 580 Principles of Development, “Notch Signaling”
 08/05 Research Training Program for Clinical Fellows, “Stem cell potential and transdifferentiation”
 08/06 Research Training Program for Clinical Fellows, “Transdifferentiation between muscle and blood”
 08/07 Research Training Program for Clinical Fellows, “Transdifferentiation between blood and the nervous system”
 08/08 Research Training Program for Clinical Fellows, “Are there CNS stem cells in bone marrow?”
 08/09 Research Training Program for Clinical Fellows “Sources of error in stem cell research”
 11/06 UC280 -Undergraduate Research Opportunity Program, “Stem Cell Research”
- 2003** 03/25 CDB 580 Developmental Biology, “Neural Stem Cells”
 08/25 Research Training Program for Clinical Fellows “Introduction to stem cell biology and cell fusion”
 08/26 Research Training Program for Clinical Fellows “Do muscle progenitors make blood cells? Do blood progenitors make muscle cells?”
 08/27 Research Training Program for Clinical Fellows “Do neural stem cells give rise to blood cells?”
 08/28 Research Training Program for Clinical Fellows “Are there CNS stem cells in bone marrow?”
 08/29 Research Training Program for Clinical Fellows “Does transdifferentiation offer a possible therapy for cardiac ischemia?”
 10/23 CMB 630 Genetics Training Program, Fall Short Course, “Introduction to Stem Cell Biology”
 11/11 CDB 682 Organogenesis of Complex Tissues/Organs, “Stem Cell Characteristics”
- 2004** 5/12 CMB Program Panel Discussion, “How to Pick a Postdoctoral Position”
 8/23 Research Training Program for Clinical Fellows “Introduction to stem cell biology and cell fusion”
 8/24 Research Training Program for Clinical Fellows “Do muscle progenitors make blood cells? Do blood progenitors make muscle cells?”
 8/25 Research Training Program for Clinical Fellows “Do neural stem cells give rise to blood cells?”
 8/26 Research Training Program for Clinical Fellows “Are there CNS stem cells in bone marrow?”
 8/27 Research Training Program for Clinical Fellows “Does transdifferentiation offer a possible therapy for cardiac ischemia?”
 9/07 CDB 683, Organogenesis of Complex Tissues, “Principles of Stem Cell Behavior”
 9/30 CDB 683, Organogenesis of Complex Tissues, panel discussion
 10/29 PIBS 503, Research Responsibility and Ethics, “Conflict of Interest”
- 2005** 8/29 Research Training Program for Clinical Fellows “The isolation of hematopoietic stem cells”
 8/30 Research Training Program for Clinical Fellows “Do hematopoietic stem cells adhere to osteoblasts via N-cadherin?”
 8/31 Research Training Program for Clinical Fellows “Does c-Myc control HSC self-renewal by controlling the HSC niche?”
 9/1 Research Training Program for Clinical Fellows “Does parathyroid

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- hormone regulate the HSC niche through osteoblasts?"
- 9/2 Research Training Program for Clinical Fellows "What are the next most important experiments to elucidate HSC niches?"
- 2006** 1/17 UM-Student Society for Stem Cell Research, "Human embryonic stem cells"
8/28 Research Training Program for Clinical Fellows "Do hematopoietic stem cells adhere to osteoblasts via N-cadherin?"
8/29 Research Training Program for Clinical Fellows " Do N-cadherin expressing bone marrow cells have stem cell activity? "
8/30 Research Training Program for Clinical Fellows " Does c-Myc control HSC self-renewal by controlling the HSC niche?"
8/31 Research Training Program for Clinical Fellows "Are osteoblasts necessary for the maintenance of HSCs?"
9/01 Research Training Program for Clinical Fellows " What are the most important experiments to elucidate HSC niches?"
9/13 UM-Student Society for Stem Cell Research, "Stem Cell Research"
9/15 NRE 320, Environmental Journalism, "Science Journalism"
10/5 UM Society of Biology Students, "Stem Cell Research"
10/31 CDB 683 Organogenesis, "Stem Cell Research"
- 2007** 9/13 NRE 320, Environmental Journalism, "Science Journalism from the Scientist's Perspective"
9/18 CDB 683 Organogenesis, "Stem Cell Signaling"
9/20 UM-Student Society for Stem Cell Research, "Human embryonic stem cells"
10/30 Society of Biology Students, "Human embryonic stem cells"
- 2008** 2/4 Biogerontology Seminar Series, "New research in stem cell aging."
9/11 UM-Student Society for Stem Cell Research, "Stem Cell Research"
9/12 NRE 320, Environmental Journalism, "Science Journalism from the Scientist's Perspective"
9/16 CDB 680 Organogenesis, "Stem Cell Properties as Determined Through the Study of Hematopoietic Stem Cells"
10/28 CMB/Genetics Fall Short Course Introductory lecture, " Cancer Stem Cells"
- 2009** 9/10 UM-Student Society of Biology Students, "Stem Cell Research"
9/17 CDB 681 Organogenesis, "Neural Stem Cells"
9/18 NRE 320, Environmental Journalism, "Science Journalism from the Scientist's Perspective"
- 2011** 04/04 Biogerontology training grant, "Stem cell aging"

Courses:

- 2000** Fall CDB 680, Organogenesis of Complex Systems, Lecture Series; Coordinator of Organogenesis of the Neural Crest Module 10/10/00 – 11/02/00
- 2003** Fall CMB 630, Genetics Training Program, Fall Short Course, "Stem Cell Biology" Faculty Coordinator, 10/23/03 – 11/20/03
- 2008** Fall CMB 630, Genetics Training Program, Fall Short Course, " Cancer Stem Cells" Faculty Coordinator, 10/23/08-11/20/08

Mentoring Graduate Students:

- 07/00 - 07/04 Genevieve Marie Kruger, Medical Scientist Training Program
Current position: Urology Resident at Lahey Clinic, Massachusetts
- 06/01 – 08/06 Nancy Joseph, Medical Scientist Training Program
Current position: Resident in Pathology, UCSF
- 07/01 – 07/05 Anna Molofsky, Medical Scientist Training Program
Current position: Resident in Psychiatry, UCSF; performing postdoctoral research in the laboratory of David Rowitch (HHMI)
- 09/01 – 08/06 Omer Yilmaz, Medical Scientist Training Program
Current position: Resident in Pathology, Massachusetts's General Hospital; performing postdoctoral research in the laboratory of David Sabatini (HHMI)
- 08/02 – 07/08 Mark Kiel, Medical Scientist Training Program
Current position: Resident in Pathology, University of Michigan
- 01/04 – 06/11 Shenghui He, Cellular and Molecular Biology Program
Current position: Performing postdoctoral research in Morrison laboratory while he looks for a new postdoctoral position.
- 08/03 – 06/06 Chong Chen, Cell and Development Biology Program
Current Position: Postdoctoral Fellow, Cold Spring Harbor Laboratory
- 01/04 – 04/05 Alana Lysholm, Neuroscience Program (left program for health reasons)
Current position: Deceased
- 07/06 – 07/10 Jae Lee, Medical Scientist Training Program
Current position: completing the clinical phase of the MD/PhD program
- 05/10 – present James Peyer, Cellular and Molecular Biology Program. James transferred to the Genetics and Development Graduate Program at UTSW

Mentoring Postdoctoral Fellows:

- 07/01 - 08/04 Ricardo Pardal
Current Position: Associate Professor, University of Seville, Spain
- 09/00 – 03/05 Toshihide Iwashita
Current Position: Professor, Hamamatsu University School of Medicine, Japan
- 07/01 – 09/06 Jack Mosher
Current Position: Assistant Research Scientist, University of Michigan
- 12/01 – 05/07 Merritt Taylor
Current Position: Assistant Professor, Grand Valley State University
- 10/02 – 08/08 Injune Kim
Current Position: Assistant Professor, Korea Advanced Institute of Science and Technology
- 11/04 – present Johanna Buchstaller
- 01/05 – 09/11 Elsa Quintana Rodriguez
Current Position: Scientist, Oncomed Pharmaceuticals
- 02/05 – 09/07 Shalom Guy Slutsky
Current Position: unknown
- 03/05 – present Jinsuke Nishino
- 07/06 – 07/08 Mick Savona
Current Position: Associate Director of Hematologic Malignancies, Sarah Cannon Research Institute, Nashville
- 08/05 – present Sergei Chuikov
- 02/06 – 11/11 Daisuke Nakada
Current Position: Assistant Professor, Baylor College of Medicine
- 08/06 – 12/09 Mark Shackleton

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Current position: Assistant Professor, Peter McCallum Cancer Institute
(Melbourne, Australia)

10/06 – 09/11 Boaz Levi
Current Position: Senior Analyst, Allen Institute for Brain Research, Seattle

01/07 – present Lei Ding

11/07 – 07/08 Michel Perron
Current Position: Scientist, Gilead

01/08 – present Melih Acar

07/08 – present Jeff Magee

05/09 – 01/11 Qing Li
Current position: Assistant Professor, University of Michigan

07/09 – present Hideyuki Oguro

09/09 – present Robert Signer

09/10 – present John Mich

04/11 – present Michaelis Agathocleus

09/11 – present Issei Shimada

09/11 – present Ugur Eskiocak

Intramural Seminars at the University of Michigan:

- 2000** 01/11 Transgenic Facility Seminar, “CRE-recombinase fate mapping of the mammalian neural crest”
- 01/12 Cell and Developmental Biology Department Seminar, “Prospective isolation of neural crest stem cells reveals their dynamic use in the development of PNS”
- 03/02 Bone Marrow Transplant Leukemia Conference, “The isolation and characterization of stem cells from the hematopoietic and nervous systems”
- 04/18 Nephrology Department Seminar, “Transient Notch activation causes an irreversible switch from neurogenesis to gliogenesis by neural crest stem cells”
- 07/11 Cancer Center Cell Biology Retreat, “Notch and neural crest stem cells in peripheral nervous system development”
- 09/18 Cell and Molecular Biology Program Seminar, “Neural crest stem cells”
- 10/02 Gene Therapy Center Seminar Series, “Notch and neural crest stem cells in peripheral nervous system development”
- 2001** 01/17 Department of Biology Seminar “Notch and neural crest stem cells in peripheral nervous system development”
- 04/25 Cell and Developmental Biology Seminar “Neural crest stem cells and the generation of neural diversity”
- 9/20 Oral Health Sciences Seminar Series “Neural crest stem cells and peripheral nervous system development”
- 10/05 Internal Medicine Grand Rounds, “Neural crest stem cells and the generation of diversity”
- 10/31 Physiology Seminar, “Neural diversity is generated by interactions between diverse environments and diverse stem cells”
- 2002** 04/05 Cancer Center, The Mark Roth Memorial Symposium, “Neural stem cells and the generation of neural diversity”
- 04/18 Internal Medicine, Lunch and Learn Program
- 06/13 Bone Marrow Transplant Seminar, “The generation of diversity in the nervous system and the hematopoietic system”
- 2003** 06/16 Bone Marrow Transplant Seminar, “The self renewal and diversification of neural

- stem cells”
- 10/03 Internal Medicine Grand Rounds, “Hirschsprung disease is linked to defects in neural crest stem cell function”.
- 12/02 Science & Engineering Seminar, “The genetic regulation of neural stem cells”
- 2005**
- 01/03 Dermatology, “The regulation of neural stem cell self-renewal”
- 01/04 Pediatric Hematology, “The regulation of stem cell self-renewal”
- 01/21 Cell and Developmental Biology, “The determination of stem cell identity”
- 01/25 Molecular Medicine and Genetics, “The regulation of stem cell self-renewal and aging”
- 01/26 Life Sciences Institute “The regulation of stem cell function”
- 03/10 Obstetrics and Gynecology Grand Rounds, “The regulation of stem cell self-renewal and aging”
- 03/29 Pediatric Grand Rounds, “The regulation of stem cell self-renewal and aging”
- 2006**
- 1/20 BMT Leukemia/Lymphoma Research Conference, Ann Arbor, MI, “Pten dependence distinguishes stem cell self-renewal from cancer cell proliferation”
- 3/28 Undergraduate Research FORUM, Keynote Speaker “Stem cell research”
- 4/12 Department of Neurosurgery, “Cancer Stem cells in the Nervous System”
- 5/15 Ageing Training Grant Seminar, “Stem cell aging”
- 6/15 Urology Research Symposium, “Stem cell self renewal versus cancer cell proliferation”
- 11/28 University Laboratory Animal Medicine Seminar, “Stem cell self-renewal, cancer cell proliferation and aging”
- 2007**
- 1/02 Cardiovascular Medicine Grand Rounds, “Stem cell aging and identification”
- 1/10 Pediatric Hematology & Oncology, “Hematopoietic stem cell niches”
- 1/12 Internal Medicine Grand Rounds, “Stem cell self-renewal throughout life”
- 04/02 Neurology-Oncology Conference, “Stem cell self-renewal throughout life”
- 04/20 CDB Brown Bag Lecture Series, “ Stem cell identity and function”
- 05/15 Nathan Shock Center Workshop, “Stem cell self-renewal, cancer cell proliferation and aging”
- 12/14 Neuroimmunology Lecture, “Regulation of stem cell self-renewal”
- 2008**
- 2/01 CDB Brown Bag Lecture Series, “ Stem cell identity and function”
- 2009**
- 4/28 Pulmonary & Critical Care Medicine (PCCM), “The regulation of stem cell self renewal”
- 5/6 Cancer Center Innovation Series, “Cancer stem cells”
- 5/7 Pediatric Hematology/Oncology Research Conference, “Cancer stem cells”
- 9/4 Internal Medicine Grand Rounds, “Cancer stem cells”
- 9/10 Arrythmia Center, “Pluripotent stem cell biology at the University of Michigan”

Membership in the following graduate programs at UTSW:

Genetics and Development
Cancer Biology

Graduate Student Rotations:

Summer, 2000	Dale Bixby, Medical Student, Summer Research
Summer, 2000	Brett Mobley, Medical Student, Summer Research
Summer, 2000	Eve Kruger, Medical Scientist Training Program

Summer, 2000	JennYah Yu, Neuroscience Program
Spring, 2001	Kwan-Ho Chung, Neuroscience Program
Spring, 2001	Nancy Joseph, Medical Scientist Training Program
Summer, 2001	Anna Rotberg, Medical Scientist Training Program
Summer, 2001	Chandan Reddy, Medical Student, Summer Research
Fall, 2001	Omer Yilmaz, Medical Scientist Training Program
Summer, 2002	Mark Kiel, Medical Scientist Training Program
Summer, 2003	Edward Oh, Neuroscience Program
Fall, 2003	Chong Chen, Cellular and Molecular Biology
Winter, 2004	Alana Lysholm, Neuroscience Program
Winter, 2004	Shenghui He, Cellular and Molecular Biology
Summer, 2006	Jae Lee, Medical Scientist Training Program
Summer, 2008	Ajay Prakash, Medical Scientist Training Program
Summer, 2008	Charlie Kuang, Medical Scientist Training Program
Summer, 2009	Danny Yang, Medical Scientist Training Program
Summer, 2009	Heiko Yang, Medical Scientist Training Program
Fall, 2009	James Peyer, Program in Biomedical Science
Fall, 2011	Chris Inra, Medical Scientist Training Program, UTSW

Dissertation Committees:

01/03 – 10/05	Matthew Velkey, Cellular and Developmental Biology
02/03 – 07/05	Joshua Krupp, Molecular, Cellular and Developmental Biology
09/04 – 03/09	Jeongsup Shim, Biomedical Engineering
03/05 – 06/08	Evan Michael, Cellular and Molecular Biology
09/05 – 05/09	Christoph Carter, Cellular and Molecular Biology
09/05 – 04/11	Joe Dosch, Cellular and Molecular Biology
09/05 – 08/07	Yungfan Man, Cellular and Molecular Biology
05/09 – 07/11	Mo Weng, Cellular and Molecular Biology
12/10 – 09/11	Morgan Jones, Cellular and Molecular Biology

Preliminary Exam Committees:

05/00	Jonathan Morrow, Medical Scientist Training Program (MD/PhD)
04/01	Blair Madison, Cellular and Molecular Biology Program
04/02	Wilson Cui, Neuroscience Program
04/03	Brendan Looyenga, Cellular and Molecular Biology Program
04/04	Neethan Lobo, Cellular and Molecular Biology Program
12/04	Albert Chueh, Biomedical Engineering
03/10	Morgan Jones, Cellular and Molecular Biology Program
01/11	Bo Li, Bioinformatics and Computational Biology Program

EXTRAMURAL INVITED PRESENTATIONS

- 2000** 04/08 Great Lakes Development Meeting, Toronto, Canada “Notch Activation instructs rapid glial differentiation by purified neural crest stem cells”
- 05/03 University of Toronto, Hospital for Sick Children, “The role of notch and neural crest stem cells in peripheral nervous system development”
- 05/10 Michigan Biotech Association, Ann Arbor, MI “Stem cell biology at the interface: science as an academic and entrepreneur”
- 06/10 Society for Developmental Biology Meeting, Boulder, CO “Transient notch activation initiates an irreversible switch from neurogenesis to gliogenesis by neural crest stem cells”

- 07/02 Developmental Neurobiology Gordon Conference, Newport, RI, “Notch and neural crest stem cells in peripheral nervous system development”
- 09/22 Fondation des Treilles, Tourtour, France, “Notch and neural crest stem cells in peripheral nervous system development”
- 11/06 University of Kentucky, Lexington, KY, “Notch and neural crest stem cells in peripheral nervous system development”
- 11/17 Foundation for Fighting Blindness, Bethesda, MD, “An in vivo analysis of neural crest stem cell developmental potential”
- 11/29 Osaka University, Osaka, Japan, “Neural crest stem cells: developmental potential and differentiation”
- 12/01 Center of Excellence Int'l Symposium on Molecular Bases of Neuronal Development and Neurodegenerative Diseases, Nagoya, Japan, “The surprising roles of notch and neural crest stem cells in peripheral nervous system development”
- 2001**
- 01/31 University of California at Los Angeles, CA, “Notch and neural crest stem cells in peripheral nervous system development”
- 02/13 Ernst Klenk Symposium, Cologne, Germany, “Neural crest stem cells and peripheral nervous system development”
- 02/14 National Institute for Medical Research (Mill Hill), London, UK, “Neural crest stem cells and peripheral nervous system development”
- 04/07 University of California at San Francisco Stem Cell Mini-symposium, San Francisco, CA, “Neural crest stem cells and PNS development”
- 04/22 The Sherman Lecture, West Bloomfield Jewish Community Center, West Bloomfield, MI “Stem cell biology and ethics”
- 05/23 National Neurofibromatosis Association, Aspen, CO, “Neural crest stem cells and peripheral nervous system development”
- 06/11 Neurotrophins Gordon Conference, Newport, RI, “Neural crest stem cells and peripheral nervous system development”
- 09/10 Howard Hughes Medical Institute Science Meeting, Chevy Chase, MD, “Neural crest stem cells and the generation of diversity”
- 10/06 4th International Symposium on Organogenesis, University of Michigan, Ann Arbor, MI, “Neural crest stem cells and the generation of diversity”
- 2002**
- 01/25 University of California at Santa Cruz, CA, “Neural crest stem cells and the generation of diversity”
- 02/07 Case Western Reserve University, Cleveland, OH, “Neural crest stem cells and the generation of diversity”
- 02/22 Stem Cell Challenge Symposium, Vienna, Austria “Neural crest stem cells and the generation of neural diversity”
- 03/11 New York Academy of Medicine, Cell and Tissue Engineering Symposium, New York, NY, “Neural crest stem cells and peripheral nervous system development”
- 03/20 Engineering Tissue Growth International Conference, Pittsburgh, PA, “Neural crest stem cells and peripheral nervous system development”
- 04/24 Children's Hospital Medical Center, Cincinnati, OH, “Neural stem cells and the generation of diversity”
- 05/08 Department of Neurobiology, Stanford University, CA, “Neural stem cells and the generation of neural diversity”
- 05/14 Massachusetts General Hospital, Neuroscience Center, Charlestown, MA, “Neural crest stem cells and the generation of neural diversity”
- 06/03 Nobel Conference on Stem Cell Biology, Stockholm, Sweden, “Neural stem cells

- and the generation of neural diversity”
- 06/12 Midland Center for the Arts, Midland, MI, “An introduction to stem cell biology”
- 06/19 Indiana University, Indianapolis, IN, “Strategies for the generation of diversity in the nervous and hematopoietic systems”
- 09/19 12th Biennial Meeting of the American Motility Society, Galveston, TX, “Critical steps in the development of the ENS and their regulation”
- 09/25 Central Society for Clinical Research, Chicago, IL, “Stem cell plasticity”
- 10/14 University of Pennsylvania, Philadelphia, PA, “Neural crest stem cells and the generation of diversity”
- 12/07 American Society for Hematology Annual Meeting, Philadelphia, PA, “Stem cells and the generation of spatial diversity”
- 2003**
- 01/22 University of California at Los Angeles, CA, “The generation of diversity from stem cells”
- 02/06 Johns Hopkins University, Baltimore, MD, “The generation of diversity from stem cells”
- 02/12 Wayne State University, Detroit, MI, “The self-renewal and diversification of stem cells”
- 03/05 St. Jude’s Hospital, Memphis, TN, “The self-renewal and diversification of stem cells”
- 03/20 University of North Carolina, Chapel Hill, NC, “The diversification and self-renewal of neural stem cells”
- 04/22 University of Kentucky, Lexington, KY, “Age-related changes in stem cell properties”
- 05/14 Maine Medical Research Institute, Portland, ME “Self renewal of neural crest stem cells”
- 05/18 American Gastroenterological Association Annual Meeting, Orlando, FL “Hirschsprung disease is caused by defects in neural crest stem cell function.”
- 06/09 International Society of Stem Cell Research Annual Meeting, Washington, DC, “Self renewal of neural crest stem cells”
- 06/20 Cold Spring Harbor Developmental Neurobiology Course, Cold Spring Harbor, NY, “The self-renewal and differentiation of neural stem cells”
- 08/02 Mount Desert Island Stem Cell Symposium, Salisbury Cove, ME, “Neural stem cells and their plasticity potential”
- 09/10 Ottawa Health Research Inst., Ottawa, Ontario, Canada, “The molecular regulation of neural crest stem cell function”
- 09/25 Emerging Technologies Conference, MIT, Boston, MA, “Adult stem cells”
- 10/21 University of Utah, Salt Lake City, UT, “The self-renewal and differentiation of neural stem cells”
- 10/29 Washington University, Stem Cell Symposium, St. Louis, MO, “Stem cell self renewal”
- 11/17 Howard Hughes Medical Institute, Chevy Chase, MD, “Stem cell self renewal”
- 11/18 Howard Hughes Medical Institute-National Institutes of Health Research Scholars, Bethesda, MD, “The genetic regulation of stem cell function”
- 12/08 Sloan-Kettering Institute, New York, NY, “The genetic regulation of neural stem cells”
- 12/15 Vanderbilt University, Nashville, TN, “The regulation of neural stem cell migration and self-renewal”
- 2004**
- 01/15 University of California at San Diego, CA, “The self-renewal and differentiation of neural stem cells”

- 02/24 University of Toronto Institute of Biomaterials and Biomedical Engineering, Distinguished Speakers in Bioengineering, Toronto, Ontario, Canada, “The genetic regulation of stem cell function”
- 03/03 University of California at San Francisco, CA, “The genetic regulation of stem cell function”
- 03/09 Moffitt Cancer Center and Research Institute, Tampa, FL, “The genetic regulation of stem cell function”
- 03/27 American Association for Cancer Research 95th Annual Meeting, Orlando, FL, “The regulation of stem cell self-renewal”
- 04/01 Second Canadian Developmental Biology Symposium, Banff, Alberta, Canada, “The regulation of stem cell self-renewal”
- 04/15 NIH Organ Innervations Workshop, Bethesda, MD, “Neural stem cells in gut”
- 04/28 Association for Research in Vision and Ophthalmology (ARVO) 2004 Annual Meeting, Ft. Lauderdale, FL “Stem Cells in Biology and Medicine: An Overview”
- 05/20 Jackson Laboratory Seminar, Bar Harbor, ME, “The genetic regulation of stem cell function”
- 06/06 Midwest Developmental Biology Meeting, Kansas City, MO, “The genetic regulation of stem cell function”
- 06/08 McDonnell Foundation 2004 Annual Meeting, Palisades, NY, “The role of Bmi-1 in stem cell and cancer cell proliferation”
- 06/11 International Society for Stem Cell Research Annual Meeting, Boston, MA, “Adult stem cell self-renewal requires repression of senescence pathways by Bmi-1”
- 06/21 Tumor Stem Cell Mini-Symposium, Pittsburgh, PA, “Applying the principles of stem cell biology to cancer”
- 07/12 Federation for European Neuroscience Annual Meeting, Lisbon, Portugal, “The regulation of neural stem cell self-renewal”
- 07/16 University of Seville, Seville, Spain, “The genetic regulation of stem cell function”
- 08/17 Gordon Conference on Neural Development, Newport, RI, “The regulation of neural stem cell self-renewal”
- 08/18 Cold Spring Harbor Cancer Genetics & Tumor Suppressor Genes Meeting, Cold Spring Harbor, NY, “The regulation of neural stem cell self-renewal”
- 09/05 Cold Spring Harbor Mouse Molecular Genetics Meeting, Cold Spring Harbor, NY, “Determination of hematopoietic stem cell identity”
- 09/13 Howard Hughes Medical Institute Science Meeting, Chevy Chase, MD, “Determination of hematopoietic stem cell identity”
- 10/01 Columbia University, New York, NY, “Genetic regulation of stem cell function”
- 11/03 Novartis Institutes for BioMedical Research, Cambridge, MA, “Genetic regulation of stem cell function”
- 11/08 National Institute on Aging, Stem Cells and Aging Meeting, Bethesda, MD, “Stem cell self-renewal and senescence”
- 11/21 2004 Hanson Symposium, Adelaide, Australia, “The genetic regulation of stem cell function”
- 11/26 Walter & Eliza Hall Institute, Melbourne, Australia, “Distinguishing stem cells from progenitors”
- 12/09 American Society for Cell Biology Annual Meeting, Washington, DC, co-chaired Mini-symposium on Stem Cells and presented “Distinguishing stem cells from progenitors”
- 12/15 Weill Medical Center, Cornell University, New York, “The genetic regulation of stem cell function”

- 2005** 01/13 Scripps Institute, San Diego, California, “The regulation of stem cell self-renewal and aging”
- 01/19 Duke University, Durham, North Carolina, “The regulation of stem cell self-renewal and aging”
- 02/12 Keystone Symposium, Molecular Regulation of Stem Cell Function, Banff, Alberta, Canada, “The regulation of stem cell self-renewal and aging”
- 02/25 University of California at Los Angeles Symposium, Los Angeles, California, “Applying the principle of stem cell biology to cancer”
- 03/03 Howard Hughes Medical Institute and CSIS Congressional Briefing on Stem Cells, Washington, DC, “Somatic stem cells”
- 03/17 Days of Molecular Medicine Meeting 2005, San Diego, CA, “Hematopoietic stem cell niches”
- 03/31 Dana-Farber Children’s Hospital, Boston, MA, “The identification and regulation of stem cells”
- 04/06 MGH Cancer Center, Charlestown, MA “The identification, localization, and regulation of stem cells”
- 04//18 Chair of Symposium on Stem Cells and Cancer at the American Association for Cancer Research 96th Annual Meeting, Anaheim, CA, and presented “Pten regulates hematopoietic stem cell function and leukemogenesis”
- 04/28 Program Directors-General Clinical Research Centers Meeting, Washington, DC, “Stem cell research”
- 05/27 EMBO Workshop and Institute for Cancer Research and Treatment International Cancer Conference, Turin, Italy, “Stem cell self-renewal and cancer proliferation”
- 06/04 Cold Spring Harbor Symposium on Quantitative Biology, Cold Spring Harbor, NY, “Pten distinguishes the self-renewal of normal and leukemic stem cells”
- 06/24 International Society for Stem Cell Research, San Francisco, CA, “Differential expression of SLAM family members distinguishes stem and progenitor cells in the hematopoietic system and reveals endothelial niches for stem cells”
- 07/28 Society for Developmental Biology, San Francisco, CA, “Differential expression of SLAM family members distinguishes stem and progenitor cells in the hematopoietic system and reveals endothelial niches for stem cells”
- 09/13 HHMI Science Meeting, “Pten dependence distinguishes stem cell self-renewal from cancer cell proliferation”
- 10/04 National Cancer Research Institute Meeting, Birmingham, UK, “Pten dependence distinguishes stem cell self-renewal from cancer cell proliferation”
- 10/11 Tanenbaum Symposium, University of Toronto, Toronto, Canada, Pten dependence distinguishes stem cell self-renewal from cancer cell proliferation”
- 10/27 Keystone Symposium, Stem Cells, Senescence, and Cancer, Singapore, “Stem cell self renewal”
- 11/10 International Workshop on Cancer Stem Cells, Milan Italy, “Pten dependence distinguishes stem cell self-renewal from cancer cell proliferation”
- 11/16 Society for Neuroscience, Washington, D.C., “Stem cell self renewal versus cancer cell proliferation”
- 11/29 The Institute for Research in Immunology and Cancer, Montreal, Canada, “Pten dependence distinguishes stem cell self-renewal from cancer cell proliferation”
- 12/2 Harvard Stem Cell Institute, Boston, MA, “Pten dependence distinguishes stem cell self-renewal from cancer cell proliferation”
- 12/5 The Banbury Center, Cold Spring Harbor, NY, Pten dependence distinguishes stem cell self-renewal from cancer cell proliferation”
- 12/14 University of North Carolina, Chapel Hill, NC, “Stem cell self renewal versus cancer cell proliferation”

- 2006** 1/11 Oregon Health and Science University, Portland, OR, "Stem cell self renewal versus cancer cell proliferation"
- 1/12 University of Oregon, Eugene, OR, "Stem cell self renewal versus cancer cell proliferation"
- 1/24 Stanford University, Stanford, CA, "Stem cell self renewal versus cancer cell proliferation"
- 2/3 ESH/AACR Conference, Cascais, Portugal, "Stem cell self renewal versus cancer cell proliferation"
- 2/17 AAAS Annual Meeting, St. Louis, MO, "Adult stem cells"
- 3/6 International Conference on Cell Therapy and Regenerative Medicine, Madrid, Spain, "Pten dependence distinguishes stem cell self-renewal from cancer cell proliferation"
- 3/29 Development of the Enteric Nervous System: Cells, Signals and Genes Conference, New York, NY, "Neurogenesis in the adult gut"
- 4/18 Abramson Family Cancer Research Institute, University of Pennsylvania, Pittsburgh, PA, "Stem cell self renewal versus cancer cell proliferation"
- 4/19 University of Wisconsin-Madison NIH Stem Cell Training Program, Madison, WI, "Neural stem cell aging"
- 4/27 University of Oklahoma, Oklahoma City, OK, "Stem cell self renewal versus cancer cell proliferation"
- 4/30 NIA Stem Cells and Aging 2006 Annual Meeting, Potomac, MD, "Stem cell aging"
- 5/2 NIH Stem Cell Seminar Series, Bethesda, MD, "Stem cell self renewal versus cancer cell proliferation"
- 5/25 University of Texas-Southwestern Seminar, Dallas, TX, "Stem cell self renewal versus cancer cell proliferation"
- 7/1 International Society for Stem Cell Research, 4th Annual Meeting, Toronto, Canada, "Stem cell aging"
- 7/16 American Society for Cell Biology, Summer Meeting, Boston, MA, "Hematopoietic stem cell niche"
- 9/12 Howard Hughes Medical Institute, Science Meeting, Chevy Chase, MD, "The regulation of stem cell aging"
- 9/18 Howard Hughes Medical Institute, Meeting of Predoctoral and Postdoctoral Research Fellows, Chevy Chase, MD, "Stem cell aging"
- 9/28 International Society for Experimental Hematology, 35th Annual Meeting, Minneapolis, MN, "Hematopoietic stem cell niche"
- 9/30 Michigan State Medical Society, 10th Annual Conference on Bioethics, Traverse City, MI, "Embryonic stem cells"
- 10/9 Genomics Institute of the Novartis Research Foundation, San Diego, CA, "Stem cell self-renewal, cancer cell proliferation and aging"
- 10/17 Center for Advanced Biotechnology and Medicine Symposium, Piscataway, NJ, "Stem cell self-renewal, cancer cell proliferation and aging"
- 11/6 Cincinnati Children's Hospital, Cincinnati, OH, "Stem cell self-renewal, cancer cell proliferation and aging"
- 11/10 Stanford Regenerating Life Symposium, Stanford CA, "Stem cell aging"
- 12/7 Mount Sinai School of Medicine, New York, NY, "Identifying hematopoietic stem cells and their niche"
- 12/14 Keystone Symposium, Cancun, Mexico, "Identifying hematopoietic stem cells and their niche"
- 2007** 2/1 INTACT 2007 Annual Meeting, Copenhagen, Denmark, "Stem cell self-renewal,

- cancer cell proliferation and aging”
- 2/16 University of California at Los Angeles Stem Cell Center Symposium, Los Angeles, CA “Stem cell self-renewal throughout life”
- 3/4 Keystone Symposium on Stem Cell Niches, Keystone, Colorado “The vascular niche for hematopoietic stem cells”
- 3/15 University of California at San Diego, San Diego, CA “Stem cell self-renewal throughout life”
- 3/20 USA-Japan Cooperative Cancer Workshop, Kauai, HI “Pten and leukemogenesis”
- 3/29 Children’s Hospital Boston, Boston, MA “Stem cell self-renewal throughout life”
- 4/2 Pfizer, Ann Arbor, MI “Stem cell self-renewal throughout life”
- 4/24 The University of Washington, Seattle, WA “Stem cell self-renewal throughout life”
- 5/22 Days of Molecular Medicine, Boston, MA “Stem cell self-renewal throughout life”
- 5/24 University of Virginia, Charlottesville, VA “Stem cells in the nervous system and other tissues”
- 5/25 Robarts Regenerative Medicine Symposium, Toronto, ON “Stem cell self-renewal throughout life”
- 6/4 American Aging Association Conference, San Antonio, TX “Stem cell self-renewal, cancer cell proliferation and aging”
- 6/11 Children’s Tumor Foundation NF Conference, Park City, UT “Stem cell self-renewal throughout life”
- 6/19 ISSCR Annual Meeting, Cairns, Australia “Sox17 dependence distinguishes the transcriptional regulation of fetal from adult hematopoietic stem cells”
- 7/15 Aspen Cancer Conference, Aspen CO “Stem cell self-renewal, cancer cell proliferation and aging”
- 9/28 ISEH Society for Hematology, Hamburg, Germany “Hematopoietic stem cell maintenance throughout life”
- 10/3 IRB Barcelona Biomed Conference, Barcelona, Spain “Neural crest stem cells, neurofibromatosis and MPNST”
- 10/5 CNIO (Spanish National Cancer Research Centre), Madrid, Spain “Stem cell self-renewal and cancer”
- 10/8 Merck-Cancer Stem Cell Symposium, Rome, Italy “Stem cell self-renewal, cancer cell proliferation and aging”
- 10/16 New York Stem Cell Foundation, Fall Conference, New York, NY “Stem cell self-renewal”
- 10/17 Silverstein Lecture, Northwestern University, Chicago, IL “Stem cell biology at the interface of science and politics”
- 11/7 University of California at San Francisco, San Francisco, CA “Stem cell self-renewal”
- 11/9 Stem Cell Network 7th Annual Scientific Meeting, Toronto, Canada “Stem cell self-renewal”
- 2008**
- 1/10 Southern California Stem Cell Consortium, Burnham Institute, San Diego, CA “Stem cells and cancer”
- 1/14 University of Toronto Program in Immunology, Toronto, Canada “Stem cells and cancer”
- 2/14 American Association for Cancer Research Meeting on Cancer and Stem Cells, Los Angeles, CA “Stem cells and cancer”
- 2/27 Keystone Symposium on Tumor Suppressors and Stem Cell Biology, Vancouver, Canada “Stem cell self-renewal versus cancer cell proliferation”

- 3/28 Keystone Symposium on Signaling Pathways in Cancer and Development, Steamboat Springs, CO “Stem cells and cancer”
- 4/8 American Association of Anatomists, Annual Meeting 2008, San Diego, CA H.W. Mossman Award Lecture in Developmental Biology. “The regulation of stem cell self-renewal”
- 4/15 University of Pennsylvania, Immunology Colloquium Seminar, Philadelphia, PA “The regulation of stem cell self-renewal”
- 4/16 University of Wisconsin, 3rd Annual Wisconsin Stem Cell Symposium, Madison, WI “Loss of Nf1 transiently promotes self-renewal but not tumorigenesis by neural crest stem cells”
- 4/25 University of North Carolina, Chapel Hill, NC “The regulation of stem cell self-renewal”
- 5/6 Massachusetts Institute of Technology, Cambridge, MA The regulation of stem cell self-renewal”
- 5/22 Chicago Transduction Symposium, Northwestern University, Chicago, IL “The regulation of stem cell self-renewal”
- 5/23 University of California-San Francisco, San Francisco, CA “Stem cell self-renewal versus cancer cell proliferation”
- 6/10 Dana Farber Cancer Institute, Seminars in Oncology, Boston, MA “The regulation of stem cell self-renewal”
- 6/12 ISSCR Annual Meeting, Philadelphia, PA “The regulation of stem cell self-renewal”
- 7/23 Weissman Lab Symposium 2008, Hamilton, MT “The regulation of stem cell self-renewal”
- 9/8 Howard Hughes Medical Institute, Science Meeting, Chevy Chase, MD, “How frequent are tumorigenic human cancer cells?”
- 9/16 Van Andel Research Institute, Grand Rapids, MI “Stem cell self-renewal”
- 9/26 Nobel Conference on Stem Cells, Stockholm, Sweden, “Stem cell self-renewal throughout life”
- 10/3 Keystone Symposia, Stem Cells, Cancer and Aging, Singapore, “Stem cells, aging and cancer”
- 10/15 Foundation Singer-Polignac, Paris, France, “Cancer Stem Cells”
- 11/10 Columbia University Dept. of Biology, New York, NY, “Stem cell self-renewal”
- 11/18 UCLA Department of Pharmacology, Los Angeles, CA, “Stem cell self-renewal”
- 12/12 Merck Research Labs, Cambridge MA, “Cancer stem cells and self-renewal”
- 2009**
- 01/15 American Association for Cancer Research, Mouse Models of Cancer, San Francisco, CA, “What percentage of human cancer cells are tumorigenic?”
- 01/28 Keystone Symposium, Emerging Tumor Suppressors, Taos, NM, “Hmga2 increases the self-renewal of fetal and young adult stem cells”
- 02/24 CNIO(Spanish National Cancer Research Centre), Cancer Conference, Madrid, Spain, “Tumorigenic potential is a common attribute of human melanoma cells, rather than a property of rare melanoma stem cells”
- 03/17 National Institute of Aging, Baltimore, MD “The regulation of stem cell aging”
- 03/27 USA-Japan Cooperative Cancer Workshop, Kona, HI “A forward genetic screen for regulators of hematopoietic and leukemic stem cell self-renewal”
- 04/06 The University of Iowa, Neuroscience Seminar, Iowa City, IA, “Stem cell self-renewal”
- 04/14 University of Pennsylvania, Institute for Regenerative Medicine, Philadelphia, PA “The regulation of stem cell renewal”
- 04/17 Boston University School of Medicine, Stem Cell Symposium, Boston, MA,

- “Stem cell self-renewal versus cancer cell proliferation”
- 04/21 Keystone Symposium, Stem Cell Niche Interactions, Whistler, British Columbia, Canada, Keynote Address “Hematopoietic stem cell self-renewal”
- 05/11 Carnegie Institution, Baltimore, MD, “The regulation of stem cell self-renewal”
- 05/23 University of Ulm, Symposium on Molecular Mechanisms of Adult Stem Cell Aging, Reischensberg, Germany, “The regulation of stem cell aging”
- 06/02 Harvard Stem Cell Institute, Brookline, MA, “Stem cell self-renewal”
- 06/11 Pezcoller Symposium, Trento, Italy, “Cancer stem cells?”
- 06/18 Massachusetts Institute of Technology, Boston, MA, “Cancer stem cells?”
- 07/25 Society for Developmental Biology Annual Meeting, San Francisco, CA, “A forward genetic screen for stem cell self-renewal genes”
- 08/03 International Union of Biochemistry and Molecular Biology International Congress, Shanghai, China, “A forward genetic screen for self-renewal genes”
- 09/14 Howard Hughes Medical Institute, Science Meeting, Chevy Chase, MD, “A forward genetic screen for stem cell self-renewal genes”
- 09/17 Keynote Speaker, Wayne State University Graduate Student Research Day, Detroit, MI, “The regulation of stem cell self-renewal”
- 09/22 Cold Spring Harbor Symposium on Stem Cell Biology, Cold Spring Harbor, NY, “A transposon mutagenesis suppressor screen for self-renewal genes”
- 11/01 Society for Melanoma Research Annual Meeting, Boston, MA, “Tumorigenic cells are common in melanoma and lack obvious hierarchical organization”
- 12/04 American Society for Cell Biology Annual Meeting, San Diego, CA, “Some cancers follow a stem cell model and some don’t”
- 12/14 American Association for Cancer Research Special Meeting on Brain Tumors, San Diego, CA, “Tumorigenic cells are common in some cancers”
- 2010**
- 01/05 Columbia University, New York, NY, “The regulation of stem cell self-renewal”
- 01/28 Harvard University, Boston, MA, “The regulation of stem cell self-renewal”
- 02/03 Keystone Symposium, Tahoe City, CA, “A transposon mutagenesis suppressor screen for genes that regulate stem cell maintenance”
- 02/10 University of California at San Diego, San Diego, CA, “Some cancers follow a stem cell model, and some don’t”
- 02/09 Pfizer, La Jolla, CA, “The cancer stem cell model describes some cancers but not others”
- 02/11 Salk Institute, La Jolla, CA, “Heterogeneity among cancer cells: stem cells or clonal evolution”
- 02/24 University of California at Berkeley, Berkeley, CA, “The regulation of stem cell self-renewal”
- 03/09 Foundation IPSEN, Beriloché, Argentina, “Some cancers follow a stem cell model, while other cancers have common tumorigenic cells with little or no hierarchical organization”
- 03/19 University of California at San Francisco, San Francisco, CA, “Some cancers follow a stem cell model, and some don’t”
- 03/30 Wayne State University, Detroit, MI, “Some cancers follow a stem cell model, and some don’t”
- 04/08 Cold Spring Harbor Asia, Suzhou, China, “The regulation of stem cell self-renewal”
- 04/18 New York University, New York, NY, “The regulation of stem cell self-renewal”
- 04/20 AACR Annual Meeting 2010, Washington, D.C., “Some cancers follow a stem cell model, while other cancers have common tumorigenic cells with little or no hierarchical organization”

- 04/27 Tri-Institutional Stem Cell Initiative, New York, NY, “Stem cells and cancer”
 05/19 Princeton University, Princeton, NJ, “The regulation of stem cell self-renewal”
 08/23 Jackson Laboratory, Short Course on Experimental Models, Bar Harbor, ME
 “Cancer stem cells?”
 10/04 2010 World Stem Cell Summit, Detroit, MI Keynote Scientific Presentation,
 “Melanoma”
 10/05 Novartis Cancer Retreat, Keynote Speaker, Atlanta, GA “Cancer stem cells?”
 11/07 Howard Hughes Medical Institute, Science Meeting, Chevy Chase, MD, “The
 metabolic regulation of stem cells by Lkb1”
 11/16 Sloan Kettering, New York, NY “The metabolic regulation of stem cells by Lkb1”
 12/01 University of Chicago, Chicago, IL “Cancer stem cells?”
 12/04 Leukemia and Lymphoma Society Symposium, Orlando, FL “The hematopoietic
 stem cell niche”
- 2011**
- 02/02 Keystone Meeting on Stem Cells, Santa Fe, New Mexico “Developmental
 changes in PI-3kinase pathway signaling influence stem cells and leukemia”
 02/09 Broad Center Opening Symposium, UCSF, San Francisco “Reprogramming of
 adult stem cells to have fetal characteristics
 02/16 ABCAM Conference on Neurodegeneration and Stem Cells, Nassau, Bahamas
 “Bmi-1 regulates neurological function throughout adult life”
 02/21 Univ of Texas Health Sciences Center San Antonio, Texas “Stem cell self-
 renewal throughout adult life”
 03/10 Keystone Meeting on Stem Cells, Cancer, and Metastasis, Keynote Address
 “Tumorigenesis and metastasis in melanoma”
 03/30 Keystone Meeting on Hematopoiesis, Big Sky Montana, “Regulation of temporal
 identity in stem cells.”
 04/02 American Association for Cancer Research Annual Meeting, Orlando, Florida,
 Workshop on Metastasis and tumor dormancy, “Melanoma tumorigenesis”
 04/04 American Association for Cancer Research Annual Meeting, Orlando, Florida,
 Forum on Cancer Stem Cells, “Malignant peripheral nerve sheath tumors”
 04/05 American Association for Cancer Research Annual Meeting, Orlando, Florida,
 Plenary session on Stem cell self-renewal mechanisms, “Temporal changes in
 stem cell self-renewal mechanisms”
 04/28 Cold Spring Harbor Laboratory meeting on Cancer Biology, “Tumorigenic cell
 frequency”
 04/29 National Institutes of Health meeting for grantees studying the hematopoietic
 stem cell niche, Bethesda, MD, “The hematopoietic stem cell niche”
 05/05 Howard Hughes Medical Institute science meeting, Janelia Farm, “The
 hematopoietic stem cell niche”
 05/10 University of Utah, Salt Lake City, “Intrinsic and extrinsic mechanisms that
 regulate hematopoietic stem cell function”
 06/17 International Society for Stem Cell Research Annual Meeting, Toronto CA “The
 hematopoietic stem cell niche”
 06/27 Gordon Conference on Cell Growth and Proliferation, Biddeford, Maine
 “Temporal changes in stem cell self-renewal mechanisms”
 07/11 Aspen Cancer Conference, Aspen, CO, “Melanoma growth, metastasis, and
 genetic change”
 08/04 Ellison Foundation Annual Meeting, Woods Hole, MA, “Bmi-1, stem cell aging,
 and neurological function”
 09/14 Stanford University, Stanford, CA “Stem cells and cancer”

COMMITTEE AND ADMINISTRATIVE SERVICE

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- 09/11 – present Dean’s Advisory Committee
 09/11 – present Director, Children’s Research Institute

ISSUED PATENTS

1. M. Csete, **S.J. Morrison**, B. Wold, D.J. Anderson. Low Oxygen Culturing of Neural Crest Stem Cells and Methods of Use, 6,759,242 B1 07/06/2004
2. M.F. Clarke, **S. J. Morrison**, M. Wicha, and M. Al-Hajj. Isolation and Use of Solid Tumor Stem Cells, US Patent number 6,984,522, Date of patent 01/10/2006
3. M.F. Clarke, **S. J. Morrison**, M. Wicha, and M. Al-Hajj. Isolation and Use of Solid Tumor Stem Cells, US Patent number 7,115,360 B2, Date of patent 10/03/2006
4. O.H. Yilmaz, M.J. Kiel, **S.J. Morrison**, T. Iwashita. Hematopoietic Stem Cell Identification and Isolation, US Patent number 7,510,877 B2, Date of patent 03/31/2009
5. M.F. Clarke, **S. J. Morrison**, M. Wicha, and M. Al-Hajj. Isolation and Use of Solid Tumor Stem Cells, US Patent number 7,113,710 B2, Date of patent 05/11/2010
6. M.F. Clarke, **S. J. Morrison**, M. Wicha, and M. Al-Hajj. Isolation and Use of Solid Tumor Stem Cells, US Patent number 7,850,961, B2, Date of patent 12/14/2010
7. O.H. Yilmaz, M.J. Kiel, **S.J. Morrison**, T. Iwashita. Hematopoietic Stem Cell Identification and Isolation, US Patent number 7,919,316 B2, Date of patent 04/05/2011

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Peer-Reviewed Publications

1. **Morrison, S.J.**, P.A. Nicholl, and P.R. Hicklenton. 1993. VA Mycorrhizal inoculation of landscape trees and shrubs growing under high fertility conditions. Journal of Environmental Horticulture 11:64-71.
2. **Morrison, S.J.**, E. Lagasse, and I.L. Weissman. 1994. Demonstration that Thy^{lo} subsets of mouse bone marrow that express high levels of lineage markers are not significant hematopoietic progenitors. Blood 83:3480-3490.
3. **Morrison, S.J.** and I.L. Weissman. 1994. The long term repopulating subset of hematopoietic stem cells is deterministic and isolatable by phenotype. Immunity 1:661-673.
4. **Morrison, S.J.**, H.D. Hemmati, A.M. Wandycz, and I.L. Weissman. 1995. The purification and characterization of fetal liver hematopoietic stem cells. Proceedings of the National Academy of Sciences USA 92:10302-10306.
5. **Morrison, S.J.**, K.R. Prowse, P. Ho, and I.L. Weissman. 1996. Telomerase activity in hematopoietic cells is associated with self-renewal potential. Immunity 5:207-216.
6. **Morrison, S.J.**, A.M. Wandycz, K. Akashi, A. Globerson, and I.L. Weissman. 1996. The aging of hematopoietic stem cells. Nature Medicine 2:1011-1016.
7. **Morrison, S.J.***, D.E. Wright*, and I.L. Weissman. 1997. Cyclophosphamide/granulocyte colony-stimulating factor induces hematopoietic stem cells to proliferate prior to

mobilization. Proceedings of the National Academy of Sciences USA 94:1908-1913.

*These authors contributed equally.

8. **Morrison, S.J.**, A.M. Wandycz, H.D. Hemmati, D.E. Wright, and I.L. Weissman. 1997. Identification of a lineage of multipotent hematopoietic progenitors. Development 124:1929-1939.
9. **Morrison, S.J.**, N.M. Shah, and D.J. Anderson. 1997. Regulatory mechanisms in stem cell biology. Cell 88:287-298.
10. Klug, C.A., **S.J. Morrison**, M. Masek, K. Hahm, S.T. Smale, and I.L. Weissman. 1998. Hematopoietic stem cells and lymphoid progenitors express different Ikaros isoforms and Ikaros is localized to heterochromatin in immature lymphocytes. Proceedings of the National Academy of Sciences USA 95:657-662.
11. **Morrison, S.J.**, P.M. White, C. Zock, and D.J. Anderson. 1999. Prospective identification, isolation by flow cytometry and in vivo self-renewal of multipotent mammalian neural crest stem cells. Cell 96:737-749.
12. Cheshier, S.H., **S.J. Morrison**, X. Liao, and I.L. Weissman. 1999. In vivo proliferation and cell cycle kinetics of long-term self-renewing hematopoietic stem cells. Proceedings of the National Academy of Sciences USA 96:3120-3125.
13. **Morrison, S.J.**, S.E. Perez, Z. Qiao, J.M. Verdi, C. Hicks, G. Weinmaster, and D.J. Anderson. 2000. Transient Notch activation causes an irreversible switch from neurogenesis to gliogenesis by neural crest stem cells. Cell, 101:499-510.
14. **Morrison, S.J.**, M. Csete, A.K. Groves, W. Melega, B. Wold, and D.J. Anderson. 2000. Culture in reduced levels of oxygen promotes clonogenic sympathoadrenal differentiation by isolated neural crest stem cells. Journal of Neuroscience, 20:7370-7376.
15. White, P.M., **S.J. Morrison**, K. Orimoto, C.J. Kubu, J.M. Verdi, and D.J. Anderson. 2001. Neural crest stem cells undergo cell-intrinsic developmental changes in sensitivity to instructive differentiation signals. Neuron 29: 57-71.
16. Reya, T*, **S.J. Morrison***, M.F. Clarke, and I.L. Weissman. 2001. Stem cells, cancer, and cancer stem cells. Nature 414:105-111. * These authors contributed equally.
17. **Morrison, S.J.**, D. Qian, L. Jerabek, B. Thiel, I. Park, P.S. Ford, M.J. Kiel, N.J. Schork, I.L. Weissman, and M.F. Clark. 2002. A genetic determinant that specifically regulates the frequency of hematopoietic stem cells. Journal of Immunology 168:635-642.
18. Kubu, C., K. Orimoto, **S.J. Morrison**, G. Weinmaster, D.J. Anderson, and J.M. Verdi. 2002. Developmental changes in Notch 1 and Numb expression mediated by local cell – cell interactions underlie progressively increasing Delta sensitivity in neural crest stem cells. Developmental Biology 244:199-214.
19. Bixby, S., G.M. Kruger, J.T. Mosher, N. Joseph, and **S.J. Morrison**. 2002. Cell-intrinsic differences between neural stem cells from different regions of the peripheral nervous system regulate the generation of neural diversity. Neuron 35:643-656.

20. Kruger, G.M., J. Mosher, S. Bixby, N. Joseph, T. Iwashita, and **S.J. Morrison**. 2002. Neural crest stem cells persist in the adult gut but undergo perinatal changes in self-renewal potential, neuronal subtype potential, and responsiveness to lineage determination factors. Neuron 35:657-669.
21. Kruger, G.M. and **S.J. Morrison**. 2002. Brain repair by endogenous progenitors. Cell 110:399-402.
22. Al-Hajj, M., M. Wicha, A. Benito-Hernandez, **S.J. Morrison** and M.F. Clarke. 2003. Prospective identification of tumorigenic breast cancer cells. Proceedings of the National Academy of Sciences USA 100:3983-3988.
23. Park, I-K, Q. Dulong, M. Kiel, M.W. Becker, M. Pihalja, I.L. Weissman, **S.J. Morrison**, and M.F. Clarke. 2003. Bmi-1 is required for maintenance of adult self-renewing haematopoietic stem cells. Nature 423:302-305.
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